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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,166	07/08/2003	Won Tae Kim	YHK-0107	6504
34610	7590	11/29/2004	EXAMINER	
FLESHNER & KIM, LLP P.O. BOX 221200 CHANTILLY, VA 20153			DINH, TRINH VO	
			ART UNIT	PAPER NUMBER
			2821	

DATE MAILED: 11/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/614,166	KIM ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Trinh Vo Dinh	2821	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

**A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.**

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 23 August 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>08/23/2004</u> . | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Objections*

1. Claims 6 is objected to because of the following informalities:

In claim 6, line 4, "the entire cell" has no antecedent basis.

In claim 6, line 8, "at least partial ones of the dummy electrodes" should be changed to --  
the at least partial ones of the dummy electrode--.

Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 4-6 drawn to the apparatus and the method claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Kang (US Patent 6,525,701 B1).

With respect to claims 4-6, Kang discloses, in Figs. 3 or 9, a driving apparatus for a plasma display panel (abstract) having an active area (dotted line area in Fig. 3 or abstract) for displaying picture and a non-display area (col. 2, line 66 to col. 3, line 9, or col. 7, lines 35-55) being adjacent at the upper and lower sides of the active area (Figs. 3 or 9), said apparatus inherently comprising a driver (in a plasma display panel, there is inherently a driver for driving scan electrodes or sustain electrodes. Refer to US 2003/0122740 or JP 9097570 which teaches a

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sustain driver and a scan driver for driving sustain electrodes and scan electrodes respectively) for driving at least partial ones electrode ( $C_m$ ,  $C_n$ ) at the active area (dotted line in drawings 3 or 9) and at least partial ones ( $C_{m-1}$ ,  $C_{n+1}$  in Fig. 3, or  $C_{m-1}$  and more in col. 7, lines 50-55) of dummy electrodes ( $C_{m-1}$ ,  $C_{n+1}$ ,  $S_{m-1}$ ,  $S_{n+1}$ ) positioned within the non-display area (col. 7, lines 35-55) with an identical signal (since sustain electrodes  $C_m$ ,  $C_n$  and dummy electrode  $C_{m-1}$  are connected together, they are driven with an identical signal by the driver). Kang further discloses, in Figs. 5-6, a sustain driver (inherently) for driving the dummy electrodes ( $C_{m-1}$ ,  $C_{n+1}$ ) and sustain electrodes ( $C_m$ ,  $C_n$ ) during at least partial period of an initialization period for initializing cells and an address period for selecting the cells (col. 2, lines 13-col. 3, lines 49) and a scan driver (inherently) for applying an initializing waveform (col. 5, lines 22+), for initializing entire cells to at least partial ones ( $S_{m-1}$ ,  $S_{n+1}$ ) of the dummy electrodes ( $C_{m-1}$ ,  $C_{n+1}$ ,  $S_{m-1}$ ,  $S_{n+1}$ ) at the non-display area and the scan electrodes ( $S_m$ ,  $S_n$ ) at the active area (effective area in Fig. 3) during initializing period and for applying the direct current voltage to the at least partial ones of the dummy electrodes at the non-display area and the scan electrodes at the active area during the address period (Figs. 5-6, col. 2, lines 13 to col. 3, lines 49).

With respect to claims 1-3, the apparatus discussed above would perform the claimed method.

### *Inquiry*

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trinh Vo Dinh whose telephone number is (571) 272-1821. The examiner can normally be reached on Monday to Friday from 9:30AM to 6:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong, can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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A handwritten signature in black ink, appearing to read 'Trinh Vo Dinh', followed by a long horizontal flourish line.

*Trinh Vo Dinh*  
*November 14, 2004*